

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Thomas Paterson et al.	Examiner:	Russell Warren Freid
Serial No.:	09/814,536	Group Art Unit:	2128
Filed:	March 21, 2001	Docket:	2049.005US1
Title:	METHOD AND APPARATUS FOR CONDUCTING LINKED SIMULATION OPERATIONS UTILIZING A COMPUTER-BASED SYSTEM MODEL		



INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :09/814,536

Filing Date: March 21, 2001

Title: METHOD AND APPARATUS FOR CONDUCTING LINKED SIMULATION OPERATIONS UTILIZING A COMPUTER-BASED SYSTEM MODEL

Page 2

Dkt: 2049.005US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,


THOMAS PATERSON ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
408-333-9972

Date 03/22/05

By


Andre L. Marais
Reg. No. 48,095

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: ~~MS Amendment~~, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 22 day of March, 2005.

Name

Dawn R. Shaw

Signature

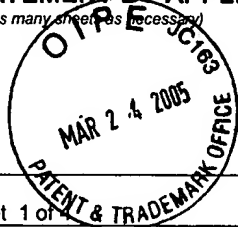
Dawn R. Shaw

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	09/814,536
Filing Date	March 21, 2001
First Named Inventor	Paterson, Thomas
Group Art Unit	2128
Examiner Name	Freid, Russell

Sheet 1 of 1

Attorney Docket No: 2049.005US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-4,873,623	10/10/1989	Lane, L. A.	05/15/1987
	US-4,881,175	11/14/1989	Ladner, R. C.	06/09/1988
	US-5,005,143	04/02/1991	Altschuler, M. D., et al.	09/25/1989
	US-5,019,961	03/28/1991	Addesso, Mark, et al.	04/05/1989
	US-5,081,584	01/14/1992	Omichinski, J. G., et al.	03/13/1989
	US-5,257,364	10/26/1993	Melamed, Benjamin, et al.	09/12/1990
	US-5,307,287	04/26/1994	Cramer, III, R. D., et al.	06/17/1991
	US-5,307,479	04/26/1994	Ulrich, E. G., et al.	03/01/1993
	US-5,331,573	07/19/1994	Balaji, V. N., et al.	12/14/1990
	US-5,408,638	04/18/1995	Sagawa, Nobutoshi, et al.	12/16/1991
	US-5,418,944	05/23/1995	DiPace, L., et al.	01/23/1992
	US-5,424,963	06/13/1995	Turner, J. D., et al.	11/25/1992
	US-5,428,740	06/27/1995	Wood, William T., et al.	10/27/1994
	US-5,434,796	07/18/1995	Weininger, D.	06/30/1993
	US-5,463,564	10/31/1995	Agrafiotis, D. K., et al.	09/16/1994
	US-5,466,321	11/14/1995	Miyaji, H.	12/17/1993
	US-5,481,741	01/02/1996	McKaskie, G., et al.	09/22/1993
	US-5,485,600	01/16/1996	Joseph, E. R., et al.	11/09/1992
	US-5,495,423	02/27/1996	DeLisi, C., et al.	10/25/1993
	US-5,526,281	06/11/1996	Chapman, D., et al.	10/28/1994
	US-5,535,422	07/09/1996	Chiang, A., et al.	10/20/1994
	US-5,544,067	08/06/1996	Rostoker, Michael D., et al.	06/14/1993
	US-5,555,201	09/10/1996	Dangelo, C., et al.	02/10/1994
	US-5,566,295	10/15/1996	Cypher, A., et al.	01/25/1994
	US-5,574,854	11/12/1996	Blake, R. P., et al.	03/16/1995
	US-5,623,418	04/22/1997	Rostoker, Michael D., et al.	06/14/1993
	US-5,640,549	06/17/1997	Powsner, S. M., et al.	06/06/1994
	US-5,657,255	08/12/1997	Fink, P. K.	04/14/1995
	US-5,680,590	10/21/1997	Parti, M.	09/05/1995
	US-5,692,184	11/25/1997	Ardoyn, J.-L., et al.	05/09/1995
	US-5,715,413	02/03/1998	Ishai, Y., et al.	06/25/1996
	US-5,729,466	03/17/1998	Bamji, C. S., et al.	04/03/1996
	US-5,732,192	03/24/1998	Malin, Jane T., et al.	11/30/1994
	US-5,732,277	03/24/1998	Kodosky, Jeffrey L., et al.	06/07/1995
	US-5,737,581	04/07/1998	Keane, John A.	08/30/1995
	US-5,737,727	04/07/1998	Lehmann, J. B., et al.	01/25/1996
	US-5,757,678	05/26/1998	Leeke, S. D.	06/07/1995
	US-5,808,918	09/15/1998	Fink, P. K., et al.	06/25/1997
	US-5,815,415	09/29/1998	Bentley, Keith, et al.	03/06/1996
	US-5,845,124	12/01/1998	Berman, Jeremy S.	05/01/1996

EXAMINER

DATE CONSIDERED

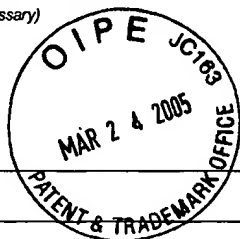
Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	09/814,536
Filing Date	March 21, 2001
First Named Inventor	Paterson, Thomas
Group Art Unit	2128
Examiner Name	Freid, Russell

Sheet 2 of 4

Attorney Docket No: 2049.005US1

	US-5,872,957	02/16/1999	Worthington, B. L., et al.	05/01/1997
	US-5,956,501	09/21/1999	Brown, Stephen J.	01/10/1997
	US-5,963,724	10/05/1999	Mantooth, H. A., et al.	02/16/1996
	US-5,987,243	11/16/1999	Aihara, Masami	08/29/1997
	US-6,051,029	04/18/2000	Paterson, T. S., et al.	10/31/1997
	US-6,063,128	05/16/2000	Bentley, Keith, et al.	11/10/1997
	US-6,078,739	06/20/2000	Paterson, T. S., et al.	11/25/1997
	US-6,236,956	05/22/2001	Mantooth, H. A., et al.	05/04/1999
	US-6,246,975	06/12/2001	Rivonelli, Richard J., et al.	10/30/1997
	US-6,289,299	09/11/2001	Daniel, Jr., William E., et al.	02/17/1999
	US-6,324,495	11/27/2001	Steinman, Jeffrey S.	06/09/1998
	US-6,539,347	03/25/2003	Paterson, Thomas S., et al.	06/06/2000

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Appendix E Generic Library Blocks", <u>Extend, Performance Modeling for Decision Support, User's Manual, Imagine That, Inc.,(1994),361-403</u>	
		"Chapter 1 Running a Model", <u>Extend, Performance Modeling for Decision Support, User's Manual, Imagine That, Inc.,(1994),11-24</u>	
		et al., "Chapter 1 Introduction to Model-Based Diagnosis", <u>Readings in Model-Based Diagnosis, Hamscher, W., et al., Editors, Morgan Kaufmann Publishers,(1992),1-2</u>	
		"Chapter 1 Objects", <u>Powersim 2.5, Reference Manual, Powersim Corporation,(1996),1-1 to 1-41</u>	
		"Chapter 12 Statistical Interference", <u>Mathematical Modeling in the Life Sciences, Doucet, P., et al., Editors, Ellis Horwood Ltd.,(1992),239-274</u>	
		"Chapter 12 The Simulation Algorithms", <u>think The Visual Thinking Tool for the 90's - Technical Reference, (1994),12-1 to 12-13</u>	
		"Chapter 13 Working With Models", <u>Mathematical Modeling in the Life Sciences, Doucet, P., et al., Ellis Horwood Ltd.,(1992),275-298</u>	
		"Chapter 14 Constructing Models", <u>Mathematical Modeling in the Life Sciences, Doucet, P., Editors, et al., Ellis Horwood Ltd.,(1992),299-324</u>	
		"Chapter 2 Building a Model", <u>Extend, Performance Modeling for Decision Support, User's Manual, Imagine That, Inc.,(1994),25-46</u>	
		"Chapter 2 Building and Simulating Models", <u>Powersim 2.5, User's Guide, Powersim Corporation,(1996),11-37</u>	
		"Chapter 2 Stocks & Flows, Infrastructure and Feedback Loops", <u>think The Visual Thinking Tool for the 90's, Introduction to Systems Thinking and think,</u>	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 806. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 3 of 4

Complete if Known

Application Number	09/814,536
Filing Date	March 21, 2001
First Named Inventor	Paterson, Thomas
Group Art Unit	2128
Examiner Name	Freid, Russell

Attorney Docket No: 2049.005US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		High Performance Systems, Inc., 25-38	
		"Chapter 3 Basic Building Blocks", <u>think The Visual Thinking Tool for the 90's, Introduction to Systems Thinking and itthink</u> , High Performance Systems, Inc., (1994), 39-64	
		"Chapter 4 Building Blocks", <u>think The Visual Thinking Tool for the 90's, Technical Reference</u> , High Performance System, Inc., (1994), 4-1 to 4-36	
		"Chapter 4 Using the Generic and Discrete Event Libraries", <u>Extend, Performance Modeling for Decision Support, User's Manual</u> , Imagine That, Inc., (1994), 69-102	
		"Chapter 5 Using Powersim Objects", <u>Powersim 2.5, User's Guide</u> , Powersim Corporation, (1996), 79-99	
		"Chapter 6 Input and Output", <u>Extend, Performance Modeling for Decision Support, User's Manual</u> , Imagine That, Inc., (1994), 113-137	
		"Chapter 8 - Using Graphs", <u>Mathematical Modeling in the Life Sciences</u> , Doucet, P., et al., Editors, Ellis Horwood Ltd., (1992), 155-168	
		"Chapter 8 Guidelines for the Modeling Process", <u>think The Visual Thinking Tool for the 90's, Introduction to Systems Thinking and itthink</u> , High Performance Systems, Inc., (1994), 152-154	
		"User Interface to Support Multiple Actions Within a Connection", <u>IBM Technical Disclosure Bulletin</u> , 37(7), (July 1, 1994), 379	
		ALIEV, M. K., et al., "Mathematical Modeling of Intercellular Transport Processings and the Crete Kinase Systems: A Probablity Approach", <u>Molecular and Cellular Biochemistry</u> , 133/134, (April-May, 1994), 333-346	
		BERGER, M. P., et al., "Combining Statistical, Rule-Based, and Physiologic Model-Based Methods to Assist in the Management of Diabetes Mellitus", <u>Computer and Biomedical Research</u> , 23(4), (1990), 346-357	
		CELLIER, F. E., "Qualitative Modeling and Simulation: Promise or Illusion", <u>Proceedings of the 1991 Winter Simulation Conference</u> , (1991), 1086-1090	
		CLANCEY, W. J., "Viewing Knowledge Bases as Qualitative Models", <u>IEEE Expert, Tools and Techniques</u> , 4(2), (Summer 1989), 9-23	
		CONOLLY, R. B., "Biologically Based Pharmacodynamic Models: Tools for Toxicological Research and Risk Assessment", <u>Annual Review of Pharmacology and Toxicology</u> , 31, (1991), 503-523	
		CONOLLY, R. B., et al., "Computer Simulation of Cell Growth Governed by Stochastic Processes: Application to Clonal Growth Cancer Models", <u>Toxicology and Applied Pharmacology</u> , 124(2), (1994), 284-295	
		DAVIS, R. , "Reasoning from First Principles in Electronic Troubleshooting", <u>International Journal of Man-Machine Studies</u> , 19, (1983), 403-423	
		FISHWICK, P. A., "Qualitative Methodology in Simulation Model Engineering", <u>Simulation</u> , 52(3), (1989), 95-101	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 4 of 4

Complete if Known

Application Number	09/814,536
Filing Date	March 21, 2001
First Named Inventor	Paterson, Thomas
Group Art Unit	2128
Examiner Name	Freid, Russell

Attorney Docket No: 2049.005US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		FORBUS, K. D., et al., "Qualitative Process Theory", <u>Artificial Intelligence</u> , 23, (1984),85-168	
		HOANG, K. T., et al., "Physiologically Based Pharmacokinetic Models: Mathematical Fundamentals and Simulation Implementations", <u>Toxicology Letters</u> , 79(1-3), (1995),99-106	
		HUNT, N. , "IDF: A Graphical Data Flow Programming Language for Image Processing and Computer Vision", <u>Proceedings of the International Conference on Systems, Man and Cybernetics</u> , (1995),351-360	
		KARP, P. D., et al., "Chapter 7: Coordinating the Use of Qualitative and Quantitative Knowledge in Declarative Dveice Modeling", In: <u>Artificial Intelligence, Simulation and Modeling</u> , John Wiley & Sons, Inc., Publishers,(1989),189-206	
		KUIPERS, B. , "Qualitative Process Theory", <u>Artificial Intelligence</u> , 29, (1986),289-388	
		LIN, Y.-B. , et al., "A Flexible Graphical User Interface for Performance Modeling", <u>Software Practice & Experience</u> , 25(2), (1995),193-216	
		PATIL, R. S., et al., "Casual Understanding of Patient Illness in Medical Diagnosis", <u>Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)</u> , (1981),893-899	
		SIEBURG, H. B., et al., "Chapter 65 -The CyberMensch Simulation Server for the Planning of Clinical Trials", In: <u>Interactive Technology and the New Paradigm for Healthcare</u> , R. M. Satava, et al., Editors, IOS Press, Publishers,(1995),445-454	
		SIEBURG, H. B., "In Silico Environments Augment Clinical Trials", <u>IEEE Engineering in Medicine and Biology</u> , 15(2), (1996),47-59	
		SIEBURG, H. B., "Methods in the Virtual Wetlab I: Ruled-Based Reasoing Driven by Nearest-Neighbor Lattice Dynamics", <u>Artificial Intelligence in Medicine</u> , 6(4), (1994),301-319	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached